

1. Record Nr.	UNISA996466012403316
Titolo	Spatial Information Theory [[electronic resource]] : 11th International Conference, COSIT 2013, Scarborough, UK, September 2-6, 2013, Proceedings / / edited by Thora Tenbrink, John Stell, Anthony Galton, Zena Wood
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2013
ISBN	3-319-01790-X
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (XIV, 538 p. 182 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 8116
Disciplina	910.285
Soggetti	Database management Geographic information systems Artificial intelligence Database Management Geographical Information System Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Spatial Change -- Spatial Primitives from a Cognitive Perspective: Sensitivity to Changes in Various Geometric Properties -- Transitional Spaces: Between Indoor and Outdoor Spaces -- Representing and Reasoning about Changing Spatial Extensions of Geographic Features -- Trust and Reputation Models for Quality Assessment of Human Sensor Observations -- Using Maptrees to Characterize Topological Change -- Wayfinding and Assistance -- Resolving Conceptual Mode Confusion with Qualitative Spatial Knowledge in Human-Robot Interaction -- Event Recognition during the Exploration of Line-Based Graphics in Virtual Haptic Environments -- Cognitive Transactions – A Communication Model -- Strategy-Based Dynamic Real-Time Route Prediction -- An Affordance-Based Simulation Framework for Assessing Spatial Suitability -- A Probabilistic Framework for Object Descriptions in Indoor Route Instructions -- Representing Spatial Data -- Linked Data and Time – Modeling Researcher Life Lines by Events -- Human

Spatial Behavior, Sensor Informatics, and Disaggregate Data -- Comparing Expert and Non-expert Conceptualisations of the Land: An Analysis of Crowdsourced Land Cover Data -- Handling Language Data -- The Meanings of the Generic Parts of Toponyms: Use and Limitations of Gazetteers in Studies of Landscape Terms -- Creating a Corpus of Geospatial Natural Language -- Spatial Language and Computation From Descriptions to Depictions: A Conceptual Framework -- Reading Geography between the Lines: Extracting Local Place Knowledge from Text -- Modeling Spatial Knowledge from Verbal Descriptions -- A Computational Model for Reference Object Selection in Spatial Relations -- Fundamental Cognitive Concepts of Space (and Time): Using Cross-Linguistic, Crowdsourced Data to Cognitively Calibrate Modes of Overlap -- Spatial Ontology -- Kinds of Full Physical Containment -- A Vocabulary of Topological and Containment Relations for a Practical Biological Ontology -- A Geo-ontology Design Pattern for Semantic Trajectories -- Spatial Reasoning and Representation -- RCC and the Theory of Simple Regions in R2 -- The Logic of NEAR and FAR -- The Topology of Spatial Scenes in R2 -- Algebraic Properties of Qualitative Spatio-temporal Calculi.

---

#### Sommario/riassunto

This book constitutes the proceedings of the 11th International Conference on Spatial Information Theory, COSIT 2013, held in Scarborough, UK, in September 2013. The 28 papers presented in this book were carefully reviewed and selected from 62 full paper submissions. The following topics are addressed: spatial change, wayfinding and assistance, representing spatial data, handling language data, spatial language and computation, spatial ontology, spatial reasoning and representation.

---